Girls are crazy for brother Shakil. They often shout to get his attention. But sometimes their voice don’t reach him because each girl has a range. Any person, who is inside or on the border of a circle that has center in the girl’s position and radius equals to girl’s range, can hear her. Given a girls position, her range and brother Shakil’s position as elements of an array, we need to find out whether he hears her or not. All inputs are non-negative integers less than or equal to 1000000000.

The first element of the array is girl’s x coordinate. The second element of the array is girl’s y coordinate. The third element of the array is girl’s range. The fourth element of the array is brother Shakil’s x coordinate. The fifth element of the array is brother Shakil’s y coordinate.

* **[time limit] 3000ms (cs)**
* **[input] array.integer arr**
* **[output] boolean**

true if brother Shakil can hear her. false otherwise.

<https://codefights.com/challenge/ceeHN7cNXkEN2ZBXx/main>

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

namespace ConsoleApplication1

{

class Program

{

bool canYouHearMe(int[] arr)

{

double xGirl = arr[0];

double yGirl = arr[1];

double range = arr[2];

double xBrother = arr[3];

double yBrother = arr[4];

double dist =

Math.Sqrt(Math.Pow(xGirl - xBrother, 2) +

Math.Pow(yGirl - yBrother, 2));

return dist <= range;

}

static void Main(string[] args)

{

Console.ReadLine();

}

}

}